THE CLAIMS

Claims 1-41 are pending in the instant application. Claims 1, 11, 21, and 32 are independent claims. Claims 2-10, 12-20, 22-31, and 33-41 depend on claims 1, 11, 21, and 32, respectively.

The Applicant requests reconsideration of the claims in view of the following remarks

Listing of claims:

 (Previously Presented) A method for secure key authentication, the method comprisina:

generating at a first location a digital signature of a secure key to obtain a digitally signed secure key;

encrypting the digitally signed secure key utilizing at least a previously generated unreadable digitally signed encrypted key; and

transmitting the digitally signed and encrypted secure key from the first location.

(Previously Presented) The method according to claim 1, comprising generating the digital signature from at least one of an asymmetric encryption algorithm and a symmetric encryption algorithm.

(Previously Presented) The method according to claim 1, comprising encrypting the digitally signed secure key prior to transmission utilizing at least an encrypted master key, to obtain the digitally signed and encrypted secure key.

(Original) The method according to claim 3, wherein the secure key comprises at least one of a master key, a work key and a scrambling key.

5. (Previously Presented) The method according to claim 1, comprising:

receiving the digitally signed and encrypted secure key at a second location; and

decrypting the digitally signed and encrypted secure key to obtain a decrypted digitally signed secure key.

6. (Previously Presented) The method according to claim 5, wherein if the secure key comprises a work key, then a decrypted digitally signed master key at the second location is utilized for decrypting an encrypted digitally signed work key. 7. (Previously Presented) The method according to claim 5, wherein if the secure key comprises a scrambling key, then a decrypted digitally signed work key at the second location is utilized for decrypting an encrypted digitally signed scrambling key.

 (Previously Presented) The method according to claim 5, comprising verifying authenticity of the digital signature of the digitally signed and encrypted secure key.

9. (Previously Presented) The method according to claim 8, comprising verifying the authenticity of the digital signature utilizing at least one of an asymmetric decryption algorithm and a symmetric decryption algorithm.

10. (Previously Presented) The method according to claim 8, comprising determining whether to verify authenticity of the digital signature.

11. (Previously Presented) A computer-readable medium having stored thereon, a computer program having at least one code section for secure key authentication, the at least one code section being executable by a machine for causing the machine to perform steps comprising: generating at a first location a digital signature of a secure key to obtain a digitally signed secure key:

encrypting the digitally signed secure key utilizing at least a previously generated unreadable digitally signed encrypted key; and

transmitting the digitally signed and encrypted secure key from the first location.

- 12. (Previously Presented) The computer-readable medium according to claim 11, comprising code for generating the digital signature from at least one of an asymmetric encryption algorithm and a symmetric encryption algorithm.
- 13. (Previously Presented) The computer-readable medium according to claim 11, comprising code for encrypting the digitally signed secure key prior to transmission utilizing at least an encrypted master key, to obtain the digitally signed and encrypted secure key.
- 14. (Previously Presented) The computer-readable medium according to claim 13, wherein the secure key comprises at least one of a master key, a work key and a scrambling key.

15. (Previously Presented) The computer-readable medium according to claim 11, comprising:

code for receiving the digitally signed and encrypted secure key at a second location; and

code for decrypting the digitally signed and encrypted secure key to obtain a decrypted digitally signed secure key.

- 16. (Previously Presented) The computer-readable medium according to claim 15, wherein if the secure key comprises a work key, then a decrypted digitally signed master key at the second location is utilized for decrypting an encrypted digitally signed work key.
- 17. (Previously Presented) The computer-readable medium according to claim 15, wherein if the secure key comprises a scrambling key, then a decrypted digitally signed work key at the second location is utilized for decrypting an encrypted digitally signed scrambling key.
- 18. (Previously Presented) The computer-readable medium according to claim 15, comprising code for verifying authenticity of the digital signature of the digitally signed and encrypted secure key.

19. (Previously Presented) The computer-readable medium according to claim 18, comprising code for verifying the authenticity of the digital signature utilizing at least one of an asymmetric decryption algorithm and a symmetric

decryption algorithm.

20. (Previously Presented) The computer-readable medium according to

claim 18, comprising code for determining whether to verify authenticity of the

digital signature.

21. (Previously Presented) A system for secure key authentication, the

system comprising:

at least one processor for generating at a first location a digital signature of

a secure key to obtain a digitally signed secure key;

the at least one processor encrypts the digitally signed secure key utilizing

at least a previously generated unreadable digitally signed encrypted key; and

the at least one processor transmitting the digitally signed and encrypted

secure key from the first location.

22. (Original) The system according to claim 21, the at least one processor

generating the digital signature from at least one of an asymmetric encryption

algorithm and a symmetric encryption algorithm.

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23. (Previously Presented) The system according to claim 21, the at least one processor encrypting the digitally signed secure key prior to transmission utilizing at least an encrypted master key, to obtain the digitally signed and encrypted secure key.

24. (Original) The system according to claim 23, wherein the secure key comprises at least one of a master key, a work key and a scrambling key.

25. (Previously Presented) The system according to claim 21, the at least one processor:

receiving the digitally signed and encrypted secure key at a second location; and

decrypting the digitally signed and encrypted secure key to obtain a decrypted digitally signed secure key.

26. (Original) The system according to claim 25, wherein a decrypted digitally signed master key at the second location is utilized for decrypting an encrypted digitally signed work key.

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27. (Original) The system according to claim 25, wherein a decrypted digitally signed work key at the second location is utilized for decrypting an

encrypted digitally signed scrambling key.

28. (Previously Presented) The system according to claim 25, the at least

one processor verifying authenticity of the digital signature of the digitally signed

and encrypted secure key.

29. (Original) The system according to claim 28, the at least one processor

verifying the authenticity of the digital signature utilizing at least one of an

asymmetric decryption algorithm and a symmetric decryption algorithm.

30. (Original) The system according to claim 28, the at least one processor

determining whether to verify authenticity of the digital signature.

31. (Original) The system according to claim 21, wherein the at least one

processor comprises at least one of a host processor, a microprocessor, and a

microcontroller.

32. (Previously Presented) A system for secure key authentication, the

system comprising:

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a transmitter;

the transmitter comprises a generator that generates a digital signature of a

secure key to obtain a digitally signed secure key;

an encryptor that encrypts the digitally signed secure key utilizing at least a

previously generated unreadable digitally signed encrypted key; and

the transmitter transmits the digitally signed and encrypted secure key.

33. (Original) The system according to claim 32, wherein the generator

generates the digital signature from at least one of an asymmetric encryption

algorithm and a symmetric encryption algorithm.

34. (Previously Presented) The system according to claim 32, wherein the

encryptor encrypts the digitally signed secure key prior to transmission utilizing at

least an encrypted master key, to obtain the digitally signed and encrypted secure

key.

35. (Original) The system according to claim 34, wherein the secure key

comprises at least one of a master key, a work key and a scrambling key.

36. (Previously Presented) The system according to claim 32, comprising:

a receiver that receives the digitally signed secure key; and

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the receiver comprising a decryptor that decrypts the digitally signed secure key to obtain a decrypted digitally signed secure key.

37. (Original) The system according to claim 36, wherein the receiver comprises a decryptor that utilizes a digitally signed master key to decrypt an encrypted digitally signed work key.

38. (Original) The system according to claim 36, wherein the decryptor utilizes a decrypted digitally signed work key to decrypt an encrypted digitally signed scrambling key.

39. (Previously Presented) The system according to claim 36, the receiver comprises a verifier that verifies authenticity of the digital signature of the digitally signed and encrypted secure key.

40. (Original) The system according to claim 39, wherein the verifier utilizes at least one of an asymmetric decryption algorithm and a symmetric decryption algorithm.

41. (Original) The system according to claim 39, wherein the verifier determines whether to verify authenticity of the digital signature.